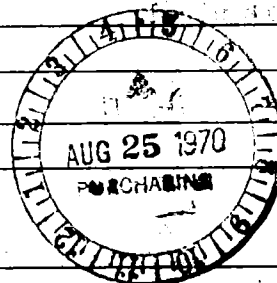


HAZARDOUS MATERIALS DATA SHEET
(PLEASE COMPLETE APPLICABLE SECTIONS)

DPM 2521
JAN 28 1982

1. PRODUCT NAME, NUMBER, SYNONYM: LEFKOWELD 109 (LM-52 Activator)
2. MANUFACTURER'S NAME: Laffingwell Chemical Co.
3. MANUFACTURER'S ADDRESS: 111 S. Berry St., Brea, Calif. 92621
4. PROCEDURE IN CASE OF BREAKAGE OR LEAKAGE: Adhesive requires no special precautions. Use standard clean-up methods. Solvents such as acetone, MEK, MIBK, trichloroethylene may be used for cleaning.
5. TRANSPORTATION AND STORAGE REQUIREMENTS: No special requirements. Keep tightly closed to avoid moisture absorption.
6. FIRST AID TREATMENT:
 - A. SKIN CONTACT: Wash thoroughly with soap and water. Do not use solvents on skin.
 - B. EYE CONTACT: Flush with water.
 - C. INHALATION: See 7D.
 - D. ANTIDOTE IN CASE OF SWALLOWING: Universal Antidote.
7. PHYSIOLOGICAL PROPERTIES:
 - A. ACUTE ORAL TOXICITY: Not known.
 - B. LOCAL EFFECTS UPON EYES: Irritant only.
 - C. LOCAL EFFECTS UPON SKIN: May act as skin irritant or cause dermatitis in some sensitive cases.
 - D. ESTIMATE OF ACUTE HAZARD BY INHALATION (VOLATILE MATERIALS): Nil under normal application methods. Very low order of volatility. Temperatures of 300°F. required before inhalation hazard is significant.
 - E. WARNING PROPERTIES (ODOR, IRRITATION TO EYES, NOSE OR THROAT): Skin rash resembling poison ivy.
 - F. ESTIMATED THRESHOLD LIMIT VALUE (IF NOT ON CURRENT LIST BY AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS): Not available.
8. CHEMICAL AND PHYSICAL PROPERTIES: Adhesive only 1.22
 - A. SPECIFIC GRAVITY (WATER = 1): Adhesive plus Activator 1.12
 - B. VAPOR DENSITY (AIR = 1): NA
 - C. VAPOR PRESSURE mm Hg AT 25°C: NA
 - D. pH: Adhesive only 7.0
Activator only 10.0
Cured resin 7.0
 - E. CORROSIVE ACTION ON COMMON MATERIALS SUCH AS: ALUMINUM, MAGNESIUM, PLEXIGLAS, RUBBER, LACQUERS, ENAMELS, FABRICS: Non-corrosive.



F. DOES THE MATERIAL DECOMPOSE WHEN EXPOSED TO AIR? WATER? HEAT? STRONG OXIDIZERS? No.

G. FOR MIXTURES GIVE THE PERCENTAGE COMPOSITION OF INGREDIENTS:

COMPOUND	PERCENT

NOTE: GENERALIZATIONS SUCH AS PETROLEUM HYDROCARBONS, ALCOHOL, KETONES, CHLORINATED HYDROCARBONS, ETC., ARE NOT ADEQUATE FOR TOXICOLOGICAL EVALUATION. PROPER CHEMICAL NAMES MUST BE KNOWN.

H. DOES THE MATERIAL GENERATE HEAT THROUGH POLYMERIZATION OR CONDENSATION? When blended with activator, heat is generated through polymerization.

9. PRECAUTIONS FOR NORMAL CONDITIONS OF USE: Avoid skin contact. Work with adequate ventilation. Keep skin and clothing clean.

10. RECOMMENDED PROTECTIVE EQUIPMENT: Plastic gloves or barrier creams are suggested but not required.

11. A. FLASHPOINT °F; CLOSED CUP _____; OPEN CUP 320°F; IF F.P. CHANGES DURING EVAPORATION GIVE DATA:

B. EXPLOSIVE LIMITS (% VOL. AIR): LOWER _____; UPPER _____

C. SUSCEPTIBILITY TO SPONTANEOUS HEATINGS: YES _____; NO X

D. FIRE POINT °F NA; AUTO IGNITION TEMPERATURE °F NA

E. VAPOR DENSITY NA

F. WHAT PRODUCTS MIGHT BE FORMED IN THE EVENT OF FIRE OR ABNORMAL TEMPERATURES? _____

G. SUITABLE EXTINGUISHING AGENTS: Water, Carbon Dioxide.

12. INFORMATION FURNISHED BY:

TITLE: Dr. L. R. McNall, Technical Director

COMPANY: Leffingwell Chemical Co.

ADDRESS: 111 S. Berry St., Brea, California 92621

DATE: August 24, 1970

NOTE: INFORMATION IN REGARD TO A MATERIAL'S COMPOSITION WILL BE USED FOR THE PURPOSE OF COMPLYING WITH LOCAL, STATE AND FEDERAL ORDINANCES, LAWS AND CODES, AND REQUIREMENTS OF GOVERNMENTAL AGENCIES.

THE COMPLETED FORM SHOULD BE RETURNED TO PURCHASING, DOUGLAS AIRCRAFT DIVISION, LONG BEACH, CALIF. 90801.